

Notice of Allowability

Application No.

10/730,443

Examiner

LAM T. MAI

Applicant(s)

WALKER, ROBERT

Art Unit

2819

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/6/2005.
2. ☒ The allowed claim(s) is/are 1-14 and 24-31.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows: Claims 15-23 are withdrawn from consideration per applicant's response to election/restriction filed on 3/21/2005.

Response to Amendments

Applicant's amendment filed on 9/6/05 has been considered and entered.

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Allowable Subject Matter

Claims 1-14 and 24-31 are allowable.

The following is an examiner's statement of reasons for allowance: Claim 1 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed interface chip to chip comprising, among other limitations, a novel and unobvious limitation of "third level in response to receiving an even number of consecutive logic highs in the data signal and at a fourth level in response to receiving an even number of consecutive logic lows in

the data signal” structurally and functionally interconnected with other limitations in the manner as cited in claims 2-10.

Claim 11 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed interface chip to chip comprising, among other limitations, a novel and unobvious limitation of “a fourth reference level at a fourth edge of the clock signal in response to no change in the data signal if the encoded signal was at the second reference level; and a receiver configured to receive the encoded signal” structurally and functionally interconnected with other limitations in the manner as cited in claims 12-14.

Claim 24 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed interface chip to chip comprising, among other limitations, a novel and unobvious limitation of “recreate the clock signal and obtain data from the double data rate data signal” structurally and functionally interconnected with other limitations in the manner as cited in claim.

Claim 25 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed interface chip to chip comprising, among other limitations, a novel and unobvious limitation of “third level in response to receiving an even number of consecutive logic highs in the data signal and at a fourth level in response to receiving an even number of consecutive logic lows in the data signal” structurally and functionally interconnected with other limitations in the manner as cited in claim.

Claim 26 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed interface chip to chip comprising, among other limitations, a novel and unobvious limitation of "recreate the clock signal and obtain data from the double data rate data signal" structurally and functionally interconnected with other limitations in the manner as cited in claim.

Claim 27 is allowed over the prior art of record. The prior art of record, considered individually or in combination, fails to fairly show or suggest the claimed interface chip to chip comprising, among other limitations, a novel and unobvious limitation of "a third reference level at a third edge of the clock signal to indicate consecutive logic highs in the data stream; and driving the signal to a fourth reference level at a fourth edge of the clock signal to indicate consecutive logic lows in the data stream" structurally and functionally interconnected with other limitations in the manner as cited in claims 28-31.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Cited References

The prior art made of record and not replied upon is considered pertinent to application's disclosures. The cited references relate to instant application matter.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM T. MAI whose telephone number is (571)272-1807. The examiner can normally be reached on 5:30 am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pascal J. Robert can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lam Mai
Art Unit 2819

JOHN B. NGUYEN

Primary Examiner.